## **Participant Questionnaire**

Participant number: 16	Date: 7/4/23
Location: Brescia, IT	
HRC Study / Algorithms tested: HAMP 5TAP - PPF	
Study Conducted by: Jared Flowers	

Participant link lengths/dimensions: (meters, "spine" is pelvis to shoulder midpoint, "shoulders" is shoulder to shoulder)

Spine	
Neck	NOTE: No.
Shoulders	. 28

Left Upper Arm	. 3
Left Forearm	.26

Right Upper Arm	. 28
Right Forearm	.27

Participant joint diameter: (meters)

Left Elbow	.105
Left Wrist	.07

Right Elbow	. ((
Right Wrist	.068

## **Questions:**

- A. How safe did you feel? (0 is not safe at all, 5 is neutral, 10 is very safe)
- B. Do you think the robot hindered your motions during the task? (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)
- C. Did the robot perform logical motions? (0 is robot motions made no sense to you, 5 is neutral, 10 is robot motions made sense to you)
- D. What is your overall satisfaction with the HRC task? (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)

Participant number: 6 Date: 7/9/23

## For Task 1 (engine parts): (circle your answer to each question)

Task 1, Me	ethod 1:									3
		safe at all, !	is neutral	, 10 is very	safe)	dente de processor de com-				
0	1	2	3	4	5	6	7	8	B	10
Question	B: (0 is rob	ot complete	ly prevent	ed your mo	tions, 5 is	neutral, 10 i	s robot did	not imped	le you motic	on)
0	1	2	3	4	5		7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	ı, 5 is neutr	al, 10 is rob	ot motions	made sens	se to you)	
0	1	2	3	4	5		7	8	18	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral	, 10 is you en	joyed worki	ng in this ce	ll with the ro	bot)
0	1	2	3	4	5	18	7	8	9	10

Task 1, Me	thod 2:		197	MOST PRILITY OF THE STATE OF TH						2
Question A	A: (0 is not	safe at all, !	5 is neutral,	10 is very	safe)					
0	1	2	3	4	5	6	7	8	9	10
Question E	3: (0 is rob	ot complete	ely prevente	ed your mo	tions, 5 is n	eutral, 10	is robot did	not impede	e you motic	on)
0	1	2	3	4	5	6	7	8	9	10
Question (	C: (0 is rob	ot motions	made no se	nse to you	, 5 is neutra	ıl, 10 is rob	ot motions	made sens	e to you)	
0	1	2	3	4	5	6	7	8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral,	10 is you er	njoyed worki	ng in this cel	I with the ro	obot)
0	1	2	3	4	5	6	7	8	9	10

Task 1, Me	ethod 3:				2 8		,ā	J.		
Question	A: (0 is not	safe at all,	5 is neutral	, 10 is very	safe)					
0	1	2	3	4	5	6	7	8	8	10
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)										
0	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutr	al, 10 is rob	ot motions	made sens	se to you)	
0	1	2	3	4	5	16	7	8	9	10
Question D	Question D: (0 is you would not work in this HRC cell again, 5 is neutral, 10 is you enjoyed working in this cell with the robot)									
0	1	2	3	4	15	6	7	8	9	10

comments: prefer more time at higher speed prefer compact robot configs away from person

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## For Task 2 (Sharework parts: metal tabs, cylinders, pallets): (circle your answer to each question)

Task 2, Me	ethod 1:									3
Question	A: (0 is not	safe at all, !	5 is neutral	, 10 is very	safe)					
0	1	2	3	4	5	6	7	18	9	10
Question	B: (0 is rob	ot complete	ly prevent	ed your mo	tions, 5 is	neutral, 10	is robot did	not imped	e you motic	on)
0	1	2	3		5		7		B	10
Question	C: (0 is rob	ot motions	made no se	ense to you	ı, 5 is neutı	al, 10 is rob	ot motions	made sens	e to you)	
0	1	2	3		5		X	8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral	, 10 is you er	njoyed worki	ng in this ce	ll with the ro	bot)
0	1	2	3	4	5	8	7	8	9	10

Task 2, Me	ethod 2:									1
Question	A: (0 is not	safe at all,	5 is neutral	, 10 is very	safe)					
0	1	2	3		5	6	7	8	Ŋ	10
Question	B: (0 is rob	ot complete	ly prevent	ed your mo	tions, 5 is r	neutral, 10 i	s robot dic	not imped	e you motic	on)
0	1	2				6			9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutr	al, 10 is rob	ot motions	made sens	e to you)	
0	1	2				6		8	9	10
Question D	: (0 is you w	ould not wo	rk in this HR	C cell again,	5 is neutral,	, 10 is you en	joyed work	ing in this cel	I with the ro	obot)
0	1	2	3	4		6	7	18	9	10

Task 2, Me	ethod 3:									1
Question	A: (0 is not	safe at all, !	5 is neutra	, 10 is very	safe)					
0	1	2	3	4	5	6	X	8	9	10
Question B: (0 is robot completely prevented your motions, 5 is neutral, 10 is robot did not impede you motion)										
0	1	2	3	4	5	6	7	8	9	10
Question	C: (0 is rob	ot motions	made no se	ense to you	, 5 is neutr	al, 10 is rob	ot motions	made sens	se to you)	
0	1	2	3	4	5	8	7	8	9	10
Question D	: (0 is you v	vould not wo	rk in this HR	C cell again,	5 is neutral,	, 10 is you en	joyed work	ng in this ce	ll with the ro	bot)
0	1	2	3	4	5	8	7	8	-9	10

Comments: T2-m4: A 8 B 2 C 8 D 8

T2-m5: A 9 B 10 C 2 D 9

EXperience: 10

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